WEST Search History

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DATE: Tuesday, December 30, 2003

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=ADJ	
☐	L8	L6 and pattern	4
☐	L7	L6 and patern	0
☐	L6	ethen.in.	24
☐	L5	l4 not l3	3
☐	L4	5764974[uref]	7
☐	L3	5794239[uref]	5
☐	L2	L1 same (quer$ or command$) same (compar$ or match$)	29
☐	L1	(pattern or string) near3 (repositor$ or log or database) same (definition or answer or response)	404

END OF SEARCH HISTORY

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L8: Entry 2 of 4 File: USPT Nov 28, 2000

US-PAT-NO: 6154787
DOCUMENT-IDENTIFIER: US 6154787 A

TITLE: Grouping shared resources into one or more pools and automatically re-assigning shared resources from where they are not currently needed to where they are needed

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY
Urevig; Paul D.	Champlin	MN		
Malnati; James R.	Stillwater	MN		
Ethen; Donald J.	New Brighton	MN		
Weber; Herbert L.	White Bear Lake	MN		

ASSIGNEE-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Unisys Corporation	Blue Bell	PA			02

APPL-NO: 09/ 010099 [PALM]
DATE FILED: January 21, 1998

INT-CL: [07] G06 F 13/14

US-CL-ISSUED: 710/8; 709/5, 709/223, 709/226, 709/249
US-CL-CURRENT: 710/8; 709/223, 709/226, 709/249

FIELD-OF-SEARCH: 710/8, 709/5, 709/223, 709/226, 709/249

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5008853	April 1991	Bly et al.	364/900
☐	5018060	May 1991	Gelb et al.	707/205
☐	5093913	March 1992	Bishop et al.	711/152
☐	5228137	July 1993	Kleinerman et al.	395/500
☐	5315711	May 1994	Barone et al.	395/275

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☐ 5347646	September 1994	Hirosawa et al.	395/575
☐ 5467467	November 1995	Ozawa	395/185.08
☐ 5625795	April 1997	Sakakura et al.	395/475
☐ 5675797	October 1997	Chung et al.	709/104
☐ 5694541	December 1997	Service et al.	395/183.22
☐ 5717856	February 1998	Carleton et al.	395/200.04
☐ 5826239	October 1998	Du et al.	705/8
☐ 5889956	March 1999	Hauser et al.	709/226
☐ 5898883	April 1999	Fujii et al.	711/147
☐ 5996013	November 1999	Delp et al.	709/226
☐ 6009275	December 1999	Dekoning et al.	395/727

ART-UNIT: 272

PRIMARY-EXAMINER: Lee; Thomas C.

ASSISTANT-EXAMINER: Elamin; Abdelmoniem

ATTY-AGENT-FIRM: Johnson; Charles A. Starr; Mark T. Nawrocki, Rooney & Silverston, P.A.

ABSTRACT:

Method and apparatus for providing a timely, automated re-assignment of resources, such as peripheral devices, memory, and/or processing capacity, among a number of host data processing systems. In a preferred embodiment, the present invention allows peripheral devices, such as tape drives, to be configured as shareable units, and accessed by any participating host data processing system as the need arises. The invention preferably includes a central coordinating facility, which evaluates the device status information gathered, from each participating host data processing system. The device status information is used to determine which host data processing systems have free devices available for use. Within these constraints, the invention automatically orchestrates the re-assignment of selected peripheral devices from where they are not currently needed to where they are needed, with little or no operator interaction.

50 Claims, 6 Drawing figures

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Aug 11, 1998

File: USPT

L2: Entry 21 of 29

US-PAT-NO: 5794239
DOCUMENT-IDENTIFIER: US 5794239 A

TITLE: Apparatus and method for message matching using pattern decisions in a message matching and automatic response system

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY
Walster; James Earl	Roseville	MN		
Wiggins; Mark Anthony	St. Paul	MN		

ASSIGNEE-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Unisys Corporation	Blue Bell	PA			02

APPL-NO: 08/ 521203 [PALM]
DATE FILED: August 30, 1995

INT-CL: [06] G06 F 17/30

US-CL-ISSUED: 707/6; 707/1, 707/100, 707/102, 395/112
US-CL-CURRENT: 707/6; 358/1.13, 707/1, 707/100, 707/102

FIELD-OF-SEARCH: 395/606, 395/112, 707/1, 707/6, 707/100, 707/102

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5315711	May 1994	Barone et al.	395/275
☐	5361353	November 1994	Carr et al.	395/700

ART-UNIT: 271

PRIMARY-EXAMINER: Amsbury; Wayne

ASSISTANT-EXAMINER: Min; Donald

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ATTY-AGENT-FIRM: Johnson; Charles A. Starr; Mark T.

ABSTRACT:

A system for automatically responding to character-based messages is disclosed. A pattern database is defined with pattern definitions for matching input messages and response definitions for automatically responding to matching input messages. Patterns definitions include token definitions which define criteria for matching a portion of an input message. The pattern definitions further include pattern decisions that contain logical expressions which increases the flexibility in defining patterns to match messages. The response definitions include function definitions and optional function decisions. Functions to be performed in response to a matching message are specified in the function definitions, wherein performance of the specified functions is dependent upon evaluation of the function decisions.

27 Claims, 40 Drawing figures

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Generate Collection Print

L2: Entry 22 of 29 File: USPT Jun 9, 1998

US-PAT-NO: 5764974
DOCUMENT-IDENTIFIER: US 5764974 A

TITLE: System with user specified pattern definitions for matching input messages and associated decisions for conditionally responding to the input messages

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY
Walster; James Earl	Roseville	MN		
Wiggins; Mark Anthony	St. Paul	MN		

ASSIGNEE-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Unisys Corporation	Blue Bell	PA			02

APPL-NO: 08/ 521003 [PALM]
DATE FILED: August 30, 1995

PARENT-CASE:
CROSS-REFERENCE This patent application is related to the co-pending patent Application No., 08/521,203, entitled, "APPARATUS AND METHOD FOR MESSAGE MATCHING USING PATTERN DECISIONS IN A MESSAGE MATCHING AND AUTOMATIC RESPONSE SYSTEM," filed on Aug. 30, 1995 by Walster et al.

INT-CL: [06] G06 F 17/30

US-CL-ISSUED: 395/606; 395/603, 395/604, 395/21, 395/54
US-CL-CURRENT: 707/6; 706/20, 706/50, 707/3, 707/4

FIELD-OF-SEARCH: 395/603, 395/604, 395/606, 395/21, 395/54

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	3614328	October 1971	McNaughton et al.	179/15AT
☐	4285049	August 1981	Bird et al.	364/900
☐	4341929	July 1982	Alexander et al.	179/90B

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☐	4608460	August 1986	Carter et al.	179/6.11
☐	4791556	December 1988	Vilkaitis	364/200
☐	4922519	May 1990	Daudelin	379/67
☐	4979206	December 1990	Padden et al.	379/67
☐	5163083	November 1992	Dowden et al.	379/88
☐	5180309	January 1993	Egnor	434/323
☐	5282265	January 1994	Rohra Suda et al.	395/12
☐	5315711	May 1994	Barone et al.	395/275
☐	5379340	January 1995	Overend et al.	379/93
☐	5418943	May 1995	Borgida et al.	395/600
☐	5485531	January 1996	Ichinohe et al.	382/198
☐	5576951	November 1996	Lockwood	395/227
☐	5627940	May 1997	Rohra et al.	395/12

ART-UNIT: 237

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Homere; Jean R.

ATTY-AGENT-FIRM: Johnson; Charles A. Starr; Mark T.

ABSTRACT:

A system for automatically and variably responding to character-based messages is disclosed. With user specified input, a software tool creates a pattern database. The pattern database consists of pattern definitions for matching input messages and response definitions for automatically responding to matching input messages. Pattern definitions define criteria for matching an input message. The response definitions include function definitions and optional function decisions. Functions to be performed in response to a matching message are specified in the function definitions, wherein performance of the specified functions is dependent upon evaluation of the function decisions.

22 Claims, 40 Drawing figures

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Sep 18, 2001

File: USPT

L3: Entry 3 of 5

US-PAT-NO: 6292797
DOCUMENT-IDENTIFIER: US 6292797 B1

TITLE: Method for determining actionable patterns in a database

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuzhilin; Alexander S.	New York	NY		
Adomavicius; Gediminas	Jersey City	NJ		

ASSIGNEE-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
New York University	New York	NY			02

APPL-NO: 09/ 130844 [PALM]
DATE FILED: August 6, 1998

PARENT-CASE:
The present application claims the benefit, under 35 U.S.C. section 119(e), of U.S. Provisional Application No. 60/055,005, filed Aug. 7, 1997.

INT-CL: [07] G06 F 17/30

US-CL-ISSUED: 707/6; 707/3, 707/102, 707/203
US-CL-CURRENT: 707/6; 707/102, 707/203, 707/3

FIELD-OF-SEARCH: 707/6, 707/102, 707/10, 707/3, 707/203

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5325466	June 1994	Kornacker	395/77
☐	5572604	November 1996	Simard	382/224
☐	5581634	December 1996	Heide	382/226
☐	5586240	December 1996	Khan et al.	395/769
☐	5659743	August 1997	Adams et al.	395/621

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☐	5731986	March 1998	Yang	364/491
☐	5764974	June 1998	Walster et al.	707/6
☐	5774576	June 1998	Cox et al.	382/160
☐	5794239	August 1998	Walster et al.	707/6
☐	5809499	September 1998	Wong et al.	707/6
☐	5832182	November 1998	Zhang et al.	707/10
☐	5857169	January 1999	Seide	704/256

OTHER PUBLICATIONS

Hambaba, Intelligent Hybrid System for Data Mining, IEEE Catalog No. 96TH8177, p. 111, Mar. 1996.*
Kamber et al. Generalization and Decision Tree Induction: Efficient Classification in Data Mining, IEEE, pp. 111-120, Apr. 1997.*
Yongjlan, Data Mining, IEEE, pp. 18-20, 1997.*
Tuzhilin et al., "A Belief-Driven Discovery Framework Based on Data Monitoring and Triggering," Center for Research on Inform Dec., 1996, pp. 1-23.
T. Imielinski et al., "DataMine: Application Programming Interface and Query Language for Database Mining", Systems for Mining Large Databases, KDD-96, pp. 256-261.
Han et al., "DMQL: A Data Mining Query Language for Relational Databases", Database Syetems Research Laboratory, pp. 27-33.
Agrawal et al., "Fast Discovery of Association Rules", pp. 307-328.
Klemettinen, "Finding Interesting Rules from Large Sets of Discovered Association Rules", University of Helsinki, pp. 1-7.
Silberchatz et al., "What Makes Patterns Interesting in Knowledge Discovery Systems", pp. 1-13.
Shen et al., "Metaqueries for Data Mining", pp. 375-397.
Matheus et al., "Selecting and Reporting What is Interesting: The Kefir Application to Healthcare Data", Advances in Knowledge Discovery and Data Mining, AAAI/MIT Press, 1995, pp. 401-419.
Agrawal et al., "Mining Association Rules between Sets of Items in Large Databases", IBM Almaden Research Center, pp. 207-216.
Silberschatz et al., "On Subjective Measure of Interestingness in Knowledge Discovery", pp. 275-281.
Piatesky-Shapiro et al., "The Interestingness of Deviations", AAA1-94 Workshop on Knowledge Discovery in Databases, KDD-94, pp. 25-36.

ART-UNIT: 211

PRIMARY-EXAMINER: Black; Thomas

ASSISTANT-EXAMINER: Coby; Frantz

ATTY-AGENT-FIRM: Baker Botts L.L.P.

ABSTRACT:

A user specifies a hierarchical action tree via user input device and user interface element. The action tree is arranged in a tree of file directories, with each node of the tree corresponding to a file directory (or path). The user then specifies classes of patterns assigned to each node (directory) of the tree using data mining queries or pattern templates. Once the system is so initialized, the pattern templates and data mining queries are executed, retrieving the patterns specified by the user from a database. The retrieved patterns assigned to a node of

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the tree are then stored in a file in the corresponding file directory. The user may now act on the discovered patterns and use the organized file structure. A pattern discovery optimization element periodically checks if the database has changed substantially, and if it has re-executes the data mining queries and pattern templates which update the contents of the file structure accordingly.

26 Claims, 5 Drawing figures

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L2: Entry 9 of 29 File: PGPB Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020152438
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020152438 A1

TITLE: Parallel scan test software

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:				
NAME	CITY	STATE	COUNTRY	RULE-47
Terry, Steven W.	Irving	TX	US	

APPL-NO: 09/ 834023 [PALM]
DATE FILED: April 11, 2001

INT-CL: [07] G01 R 31/28

US-CL-PUBLISHED: 714/726
US-CL-CURRENT: 714/726

REPRESENTATIVE-FIGURES: 2

ABSTRACT:

The present invention provides an improved boundary scan test system that can scan device scan paths in a parallel manner. In one embodiment, an improved method for processing a scan command from a pattern file is provided. The scan command is associated with (e.g., includes, points to) test device data that is to be scanned into physical system under test devices of a type specified by the command. Initially, a parallel device structure is acquired for the specified device type. The parallel device structure has one or more groups each identifying one or more parallel scan paths of devices within the physical system under test. A scan image is then prepared for each of the one or more groups whose one or more identified parallel scan paths include a device of the specified device type. For each group whose one or more scan paths has a device of the specified device type, a scan request, with the scan image prepared for the group, is then generated for that group. The scan request, when provided to a utility unit, causes the unit to scan in parallel the scan image into the one or more scan paths of the group in order to scan the test device data into the devices of the specified device type within the group.

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L2: Entry 11 of 29

File: PGPB

Mar 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020032735
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020032735 A1

TITLE: Apparatus, means and methods for automatic community formation for phones and computer networks

PUBLICATION-DATE: March 14, 2002

INVENTOR-INFORMATION: NAME	CITY	STATE	COUNTRY	RULE-47
Burnstein, Daniel	Brookline	MA	US	
Crawford, Carl	Brookline	MA	US	
Karet, James M.	Worcester	MA	US	
Lebed, Jay	Brookline	MA	US	
Starfield, Jeffrey	Watertown	AZ	US	
Wood, George	Scottsdale	AZ	US	

APPL-NO: 09/ 934093 [PALM]
DATE FILED: August 21, 2001

RELATED-US-APPL-DATA:
Application is a non-provisional-of-provisional application 60/228203, filed August 25, 2000,

INT-CL: [07] G06 F 15/16

US-CL-PUBLISHED: 709/204; 707/6
US-CL-CURRENT: 709/204; 707/6

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

An automatic telephone, Internet or intranet community formation system that utilizes spoken words or matching search terms. The invention utilizes wireless and wired voice communications, database and list serve technology to archive and match users based upon their search terms entered into a telephone system or a search engine, Internet, intranet, extranet, local area network, wide area networked, wired, wireless or standalone computer. A community formation system refers to a means of inviting one or more persons to communicate via voice, email or other method and join in a discussion. Invitations to join would be sent via an email, SMS, instant messaging, phone, web browser, email or fax communication. The user would have control over whether s/he wanted to be invited into a community, the age of desired matches, the closeness or breadth of the matches, the duration of the community, and the type of community--voice or text. Also, users have the ability

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to a.) conduct joint searches and b.) jointly and severally rate the content information, websites, or other subjects, and c.) to pick settings to establish his or her actual identity or to adopt an anonymous identity.

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L2: Entry 12 of 29 File: USPT Dec 16, 2003

US-PAT-NO: 6665824
DOCUMENT-IDENTIFIER: US 6665824 B1

TITLE: System and method for handling a failure reporting conversation

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY
Ruhlen; Matthew J.	Redmond	WA		
Glerum; Kirk A.	Redmond	WA		

ASSIGNEE-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Microsoft Corporation	Redmond	WA			02

APPL-NO: 09/ 570825 [PALM]
DATE FILED: May 15, 2000

INT-CL: [07] H02 H 3/05

US-CL-ISSUED: 714/57; 714/38
US-CL-CURRENT: 714/57; 714/38

FIELD-OF-SEARCH: 714/57, 714/4, 714/38, 717/124, 717/126, 717/127, 717/174

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5237677	August 1993	Hirosawa et al.	714/57
☐	5522036	May 1996	Shapiro	714/38
☐	5812748	September 1998	Ohran et al.	714/4
☐	6122754	September 2000	Litwin et al.	714/4
☐	6378087	April 2002	Flanagan et al.	714/38
☐	6438749	August 2002	Chamberlain	717/174

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ART-UNIT: 2184

PRIMARY-EXAMINER: Le; Dieu-Minh

ATTY-AGENT-FIRM: Merchant & Gould

ABSTRACT:

The invention is a software module configured for handling failure information from a large base of clients. The invention is configured for a four-stage network conversation between a client and a server. In the first stage, the module collects failure information and creates a string address. The string address is sent to the server, where the string address is compared to predefined string addresses. In the second stage, the client creates a record query with the failure information for the server. The record query is sent to the server and compared to predefined failure records. In the third stage, the client transfers additional failure information to the server, and the server acknowledges information transfer. In the fourth stage, the client sends a confirmation message to the server. When necessary, a predefined string address corresponding to the particular failure information is created on the server for subsequent reference by a stage one network conversation.

19 Claims, 5 Drawing figures

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L2: Entry 12 of 29 File: USPT Dec 16, 2003

DOCUMENT-IDENTIFIER: US 6665824 B1
TITLE: System and method for handling a failure reporting conversation

CLAIMS:

2. The method of claim 1, further comprising the steps: in response to determining that the string address does not match a predefined string at the repository, creating a record query with failure information; accessing the repository to search a set of predefined failure records; and determining whether the record query matches a predefined failure record.

16. A method for handling a failure in an application program module, the method comprising the steps: collecting failure information from the application program module; creating a string address with the failure information; determining whether the string address matches a predefined string address at a repository; in response to determining that the string address matches a predefined string address at the repository, sending file content located at the matching string address from the repository to the application program module; in response to determining that the string address does not match a predefined string at the repository, creating a record query with failure information; accessing the repository to search a set of predefined failure records; determining whether the record query matches a predefined failure record; in response to determining that the record query does not match a predefined failure record, starting a preset counter for tracking needed additional failure information requests; creating a failure record with failure information corresponding to the record query; sending a request for additional failure information to the application program module; in response to determining that the record query matches a failure record, determining whether the preset counter is greater than zero; in response to determining that the preset counter is zero, sending a request for additional failure information to the application program module; sending additional failure information from the application program module to the repository; decrementing the preset counter; determining whether the preset counter is greater than zero; and in response to determining the preset counter is zero, creating a string address corresponding to the record query.

17. A computer-readable medium having computer-executable instructions for handling the reporting of a failure in a computer program, the computer-executable instructions performing the steps of: collecting failure information from the computer program: creating a string address with the failure information; determining whether the string address matches a predefined string address at a repository; in response to determining that the string address matches a predefined string address at the repository, sending file content located at the matching string address from the repository to the computer program; and in response to determining that the string address does not match a predefined string at the repository, creating a record query with failure information; accessing the repository to search a set of predefined failure records; and determining whether the record query matches a predefined failure record.

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L2: Entry 18 of 29 File: USPT Jun 27, 2000

US-PAT-NO: 6081774
DOCUMENT-IDENTIFIER: US 6081774 A

TITLE: Natural language information retrieval system and method

DATE-ISSUED: June 27, 2000

INVENTOR-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY
de Hita; Carolina Rubio	Antwerpen			BE
Akker; David van den	Antwerpen			BE
Govaers; Erik C. E.	Malle			BE
Platteau; Frank M. J.	Borgerhout			BE
Deun; Kurt Van	Schoten			BE
Macpherson; Melissa	Albuquerque	NM		
de Bie; Peter	Berchem			BE
Laviolette; Sophie	Brussels			BE

ASSIGNEE-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Novell, Inc.	Provo	UT			02

APPL-NO: 08/ 916628 [PALM]
DATE FILED: August 22, 1997

INT-CL: [07] G06 F 17/27, G06 F 7/00

US-CL-ISSUED: 704/9; 707/3
US-CL-CURRENT: 704/9; 707/3

FIELD-OF-SEARCH: 704/1, 704/9, 704/10, 704/530, 704/531, 707/3, 707/10

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5251316	October 1993	Anick et al.	704/10
☐	5325298	June 1994	Gallant	704/9
☐	5475587	December 1995	Anick et al.	704/9

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☐	5761688	June 1998	Morishita	707/532
☐	5794178	August 1998	Caid et al.	704/9
☐	5913215	June 1999	Rubinstein	704/10

ART-UNIT: 277

PRIMARY-EXAMINER: Isen; Forester W.

ASSISTANT-EXAMINER: Edouard; Patrick N.

ATTY-AGENT-FIRM: Wolf, Greenfield & Sack, P.C. Morris; James H. Sherr; Alan B.

ABSTRACT:

An information retrieval system that represents the content of a language-based database being searched as well as the user's natural language query. In accordance with one aspect of the invention, the information retrieval system includes a non-real-time development system for automatically creating a database index having one or more content-based database keywords of the data base; and a real-time retrieval system that, in response to a user's natural language query, searches the keyword index for one or more content-based query keywords derived from the natural language query. The development system and the retrieval system morphologically, syntactically and linguistically analyze the data base and the natural language query, respectively, to generate the one or more database keywords and query keywords representing the content of the database and the natural language query, respectively. The development system includes a software development system for creating the database index utilizing a pattern dictionary that includes synonyms and skip words and a morphosyntactic dictionary that includes morphological and syntactic information for words in the natural language of the language-based database and the natural language query. In one embodiment, the retrieval system includes a natural language interface system for creating the one or more query keywords utilizing the pattern dictionary and the morphosyntactic dictionary. In one embodiment, the retrieval system also includes a query-index matcher for matching the one or more query keywords with the one or more database keywords.

16 Claims, 19 Drawing figures

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Apr 21, 1998

File: USPT

L3: Entry 14 of 15

US-PAT-NO: 5742746
DOCUMENT-IDENTIFIER: US 5742746 A

TITLE: Character output control method and apparatus for terminal

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:				
NAME	CITY	STATE	ZIP CODE	COUNTRY
Doi; Hitoshi	Yokohama			JP
Okutsu; Masayoshi	Yokohama			JP

ASSIGNEE-INFORMATION:					
NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Digital Equipment Corporation	Maynard	MA			02

APPL-NO: 07/ 952863 [PALM]
DATE FILED: November 24, 1992

FOREIGN-APPL-PRIORITY-DATA:		
COUNTRY	APPL-NO	APPL-DATE
JP	2-140578	May 30, 1990

PCT-DATA:					
APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/JP91/00708	May 28, 1991	WO91/19275	Dec 12, 1991	Nov 24, 1992	Nov 24, 1992

INT-CL: [06] G06 K 15/00

US-CL-ISSUED: 395/115; 395/110
US-CL-CURRENT: 358/1.16; 358/1.11

FIELD-OF-SEARCH: 395/100, 395/101, 395/109, 395/110, 395/114, 395/115, 395/116, 395/150, 395/501, 395/507, 395/508, 395/511, 395/514, 395/167, 358/404, 358/444, 358/467, 358/261.4, 358/470, 345/192, 345/195, 345/467

PRIOR-ART-DISCLOSED:

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Search Selected Search ALL Clear

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL

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☐	4051457	September 1977	Inose et al.	369/900
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FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
356 104	February 1990	EP	
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ART-UNIT: 274

PRIMARY-EXAMINER: Bost; Dwayne

ASSISTANT-EXAMINER: Legree; Tracy M.

ATTY-AGENT-FIRM: Hudgens; Ronald C. Drozenski; Diane C.

ABSTRACT:

A terminal, such as character display unit or printer, has a character pattern memory region. A host system controls an operation of outputting a character to the terminal. In case of outputting a desired character to the terminal, firstly an examination is made at the side of the host system as to whether or not a character pattern corresponding to the desired character is stored in the character pattern memory region. When it is determined that the character pattern has not been stored in the character pattern memory region, the character pattern from the host system is loaded into the character pattern memory region.

5 Claims, 4 Drawing figures

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L3: Entry 14 of 15 File: USPT Apr 21, 1998

DOCUMENT-IDENTIFIER: US 5742746 A
TITLE: Character output control method and apparatus for terminal

Detailed Description Text (9):
FIG. 3 is a block diagram corresponding to FIG. 1, and the flow of processing in the embodiment shown in FIG. 3 is similar to that of the flowchart of FIG. 2. As indicated within a functional block 10A in FIG. 3, this embodiment includes an interface 14 for designating the control method of the functional block 10A from the user or application program of the terminal 1. With an "initialize" request 40 and using system commands, the user of the terminal 1 sets the filename of the character-pattern database 30 and a size (the maximum number of the elements of a queue) and a management method (such as the LRU method or the FIFO method) for the character pattern cache emulation in the terminal control software and notifies the terminal control software of the use of the software ODL function. The notified terminal control software 10A prepares and initializes a memory for the character pattern cache emulation, and executes initialization for retrieving the character pattern database 30.

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L3: Entry 12 of 15 File: USPT May 4, 1999

US-PAT-NO: 5900024
DOCUMENT-IDENTIFIER: US 5900024 A

TITLE: Method for processing type-ahead input and operation-abort input

DATE-ISSUED: May 4, 1999

INVENTOR-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY
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ASSIGNEE-INFORMATION: NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
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APPL-NO: 08/ 745025 [PALM]
DATE FILED: November 7, 1996

INT-CL: [06] G06 F 9/00

US-CL-ISSUED: 712/225; 712/201
US-CL-CURRENT: 712/225; 712/201

FIELD-OF-SEARCH: 395/561, 395/736, 395/566, 395/567, 395/733

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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☐	5301331	April 1994	Ueno et al.	395/733
☐	5438677	August 1995	Adams et al.	395/736
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Investigating the hybrid windowing and messaging architecture of Chicago by

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Pietrek, Microsoft Systems Journal, Sep. 1994 v9 n9 p15.
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"Peter Norton's Windows 3.1 Power Programming Techniques 2nd Edition", Peter Norton & Paul Yao, pp. 68-74, 429-442, 725-726.

ART-UNIT: 274

PRIMARY-EXAMINER: Lall; Parshotam S.

ASSISTANT-EXAMINER: Maung; Zarni

ATTY-AGENT-FIRM: Blakely, Sokoloff, Taylor & Zafman LLP

ABSTRACT:

A method for processing user-input that may include a command to abort a previously requested operation and typed-ahead data entered in anticipation of completion of the previously requested operation is disclosed. The user-input is represented by a value queued in a first queue by an operating system. According to the present invention, the value is removed from the first queue and examined to determine if it represents a command to abort the previously requested operation. If the value represents a command to abort the previously requested operation, the previously requested operation is aborted. If the value does not represent a command to abort the previously requested operation, the value is queued in a second queue, and, after completion of the previously requested operation, the value is removed from the second queue and associated with a display window to which user-input is focused at that time.

22 Claims, 8 Drawing figures

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May 4, 1999

File: USPT

L3: Entry 12 of 15

DOCUMENT-IDENTIFIER: US 5900024 A
TITLE: Method for processing type-ahead input and operation-abort input

Detailed Description Text (57):
Consider now the message handler 600 and event loop 700 depicted in FIGS. 6 and 7, respectively, in the context of the FIG. 1 order entry screen 100. Assume that after entering the company name and pressing the key (or keys) which initiates the data retrieval operation, the order clerk types ahead the word "Pencils". Assume further that after the data retrieval operation is initiated at step 425 of message handler 600, no response from the database server is detected in step 430 for a number of iterations. In that case, steps 510, 515 and 610 of message handler 600 will be iteratively executed to remove messages indicating the typed-ahead characters (`P`, `e`, `n`, `c`, `i`, `l`, `s`) from the hardware event queue, confirm that none of the messages indicate a command to abort the data retrieval operation, and then queue the characters on the second queue. If, after the string "Pencils" has been queued on the second queue, data retrieval is completed, program execution proceeds from step 430 to step 435 where message handlers for the Company Name, ID#, Contact, Telephone and Address windows (110, 115,120,125 and 130) will be invoked to display the retrieved information designated for each window, and the keyboard focus will be shifted to the Item window 135. Thereafter, the message handler 600 will be exited and program execution will continue at step 710 of event loop 700.

Detailed Description Text (59):
Returning to the point in the example above where the order clerk typed ahead the string "Pencils", suppose further that the order clerk, realizing that the wrong company name had been entered, presses ctrl-break, ctrl-c or any other designated keys to abort the data retrieval operation (or, at least, to abort the routine awaiting a response from database server). Now, after repeated execution of steps 510, 515 and 610 to queue the string "Pencils" in the second queue, the message handler will remove the message indicating the abort command from the hardware event queue at step 510. Upon detecting the abort command at step 515, program execution will proceed to block 615 where the second queue is emptied. It will be appreciated that emptying the second queue after detecting an abort command may not be desirable in every application program and that step 615 therefore represents an optional operation. However, in the Order Entry Application of FIG. 1, aborting the data retrieval operation means leaving the keyboard focus in the Company Name window 110. Consequently, omitting to empty the second queue at step 615 would result in the characters "Pencils" being entered into the Company Name window 110 by event loop 700. By emptying the second queue in step 615 of message handler 600, this undesirable result is avoided.

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May 1, 2001

File: USPT

L3: Entry 11 of 15

US-PAT-NO: 6226659
DOCUMENT-IDENTIFIER: US 6226659 B1
** See image for Certificate of Correction **

TITLE: Method and apparatus for processing reports

DATE-ISSUED: May 1, 2001

INVENTOR-INFORMATION:				
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Wilson; Stewart	Alameda	CA		
Tilli; Marco	Hayward	CA		

ASSIGNEE-INFORMATION:					
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Oracle Corporation	Redwood Shores	CA			02

APPL-NO: 08/ 710440 [PALM]
DATE FILED: September 17, 1996

INT-CL: [07] G06 F 17/30

US-CL-ISSUED: 707/526; 707/1
US-CL-CURRENT: 715/526; 707/1

FIELD-OF-SEARCH: 710/30, 710/203, 710/100, 707/104, 707/526, 707/1, 709/107

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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☐	5644786	July 1997	Gallagher et al.	710/30
☐	5671365	September 1997	Binford et al.	710/100
☐	5832504	November 1998	Tripathi et al.	707/104
☐	5835762	November 1998	Gans et al.	

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☐ 5875343 February 1999 Binford et al. 710/203

ART-UNIT: 211

PRIMARY-EXAMINER: Amsbury; Wayne

ATTY-AGENT-FIRM: Hickman Palermo Truong and Becker LLP Becker; Edward A.

ABSTRACT:

A method and apparatus are provided for processing reports. Upon system startup, a report server automatically starts one or more report processes. As client report commands are received from one or more client applications, the client report commands are assigned to one or more of the executing report processes. After a report is completed, the report process is automatically reinitialized and kept active to process another report. The report server automatically adjusts the number of active report processes based on the current report processing load requirements. According to another aspect of the present invention, a report queue is provided to store client report commands as they are received from the client applications. A report queue manager is also provided for externally managing the report queue.

56 Claims, 5 Drawing figures

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Record Display Form

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Generate Collection Print

May 1, 2001

File: USPT

L3: Entry 11 of 15

DOCUMENT-IDENTIFIER: US 6226659 B1
** See image for Certificate of Correction **
TITLE: Method and apparatus for processing reports

Detailed Description Text (14):
Upon receiving the client report command 310(3) from the client application 302, the report server process 304 stores the client report command 310(3) in a report queue 312. The report server process 304 then determines whether the report process 306 is available for report processing. The report process 306 may not be available if a prior report is not yet completed. Once the report process 306 is available, the report server process 304 reads the report command 310(3) from the report queue 312 and then transmits a server report command 310(4) to the report process 306. After receiving the server report command 310(4), the report process 306 opens a report definitions file (RDF) 313 (FIG. 3A) which indicates what data is to be included in the report and how it is to be arranged. The report process 306 then issues DBMS commands 310(5) to the DBMS 308 to establish a session/connection to the DBMS 308 based on the database connection string contained in the server report command 310(4) and to retrieve data from the DB 309 (FIG. 3A). The DBMS 308 then transmits data 310(6) back to the report process 306. With this data, the report process 306 prepares a report and transmits it to its intended destination, such as a printer or file. However, according to other embodiments of the present invention, report processing may involve other tasks such as printing a previously prepared report or merging two or more previously prepared reports. As is typical of report processes, the report process 306 may write intermediate report files to a storage medium (not illustrated) as necessary to complete its report processing.

Detailed Description Text (18):
According to another embodiment of the present invention, upon startup, the report server process 304 automatically starts and initializes a minimum number of report processes 306 before client applications 302 begin issuing client report commands 310(3). If the number of unprocessed client report commands 310(3) in the report queue 312 greatly exceeds the processing capability of the currently executing report processes, then the report server process 304 dynamically allocates additional report processes 306 up to a maximum number of report processes 306. On the other hand, if because of reduced report demand, many of the report processes 306 are idle, the report server may terminate one or more idle report processes 306 to reduce processing overhead. Many report process allocation schemes may be used and the type and sophistication of the particular report process allocation scheme used depends upon the particular report system 300. When subsequent reports are processed by a particular report process 306, an (RDF) 313 only has to be opened if the report is a different report type than the last report processed. In addition, if based on the database connection string the same database 309 is to be used, then the existing DBMS 308 session/connection can be used, greatly reducing the startup time.